

10-2540.05 SALTON SEA - ELEVATIONS OF WATER SURFACE

DESCRIPTION: water-stage recorder and staff gage located on the western shore of the Salton Sea, 24.9 kilo-meters northwest of westmorland, Imperial County, California. The Salton Sea is the sink of a closed basin which has a drainage area of 21,652 square kilometers. Zero of the gage is 76.200 meters below mean sea level, U. S. C. & G. S. datum.

RECORDS: Records of water surface elevations available from November 1904 through 2001. From January 1925 to October 22, 1951, once monthly records of elevations were collected by Imperial Irrigation District from a bench mark at Figtree John's Spring, about 35.4 kilometers northwest along the western shore from the present gage. Since October 24, 1951, a continuous record of gage heights has been obtained by the U. S. Geological Survey at new gaging station published as "Salton Sea near westmorland, California." The elevation of the old station is at a datum of 0.305 meter higher than that of the present station. All records reported below and the area and capacity table are adjusted to the datum of the present station.

REMARKS: Runoff from the basin, irrigation drainage and waste water from Imperial and Coachella Valleys in the United States, and drainage and waste water from part of the Mexicali Valley in Mexico discharge into the Salton Sea. Water from Mexico enters the United States in the Alamo and New River channels. The bottom of the sea is 84.64 meters below mean sea level, U. S. C. & G. S. datum.

EXTREMES: Maximum elevation during 2001 was 69.310 meters below mean sea level. Minimum elevation during 2001 was 69.645 meters below mean sea level. Extremes for period of record: maximum elevation 59.710 below mean sea level February 10 to March 29, 1907; minimum elevation since 1906, 76.690 meters below mean sea level in November 1924.

MEAN DAILY WATER SURFACE ELEVATION IN METERS BELOW MEAN SEA LEVEL- 2001												
Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	69.555	69.495	69.435	69.340	69.310	69.310	69.370	69.435	69.525	69.555	69.615	69.615
2	69.555	69.495	69.435	69.340	69.310	69.310	69.370	69.435	69.525	69.555	69.615	69.615
3	69.555	69.495	69.435	69.340	69.310	69.310	69.370	69.435	69.525	69.555	69.585	69.615
4	69.555	69.495	69.405	69.340	69.310	69.310	69.370	69.435	69.525	69.555	69.585	69.615
5	69.555	69.495	69.405	69.340	69.310	69.310	69.370	69.435	69.525	69.555	69.585	69.615
6	69.555	69.495	69.405	69.340	69.310	69.310	69.370	69.435	69.525	69.555	69.585	69.615
7	69.555	69.495	69.405	69.340	69.310	69.310	69.370	69.435	69.525	69.555	69.585	69.615
8	69.555	69.495	69.405	69.340	69.310	69.310	69.370	69.435	69.525	69.585	69.585	69.615
9	69.555	69.495	69.405	69.370	69.310	69.310	69.370	69.435	69.525	69.585	69.585	69.615
10	69.555	69.495	69.405	69.370	69.310	69.310	69.370	69.435	69.525	69.585	69.585	69.615
11	69.555	69.495	69.405	69.370	69.310	69.310	69.370	69.435	69.525	69.585	69.585	69.615
12	69.525	69.495	69.405	69.370	69.310	69.310	69.370	69.435	69.525	69.585	69.585	69.615
13	69.525	69.495	69.405	69.370	69.310	69.340	69.370	69.435	69.555	69.585	69.585	69.615
14	69.525	69.495	69.405	69.370	69.310	69.340	69.370	69.435	69.555	69.585	69.585	69.615
15	69.525	69.495	69.405	69.370	69.310	69.340	69.405	69.465	69.555	69.585	69.585	69.615
16	69.525	69.465	69.370	69.370	69.310	69.340	69.405	69.465	69.555	69.585	69.585	69.615
17	69.525	69.465	69.370	69.340	69.310	69.340	69.405	69.465	69.555	69.585	69.585	69.615
18	69.525	69.465	69.370	69.340	69.310	69.340	69.405	69.465	69.555	69.585	69.585	69.615
19	69.525	69.465	69.370	69.340	69.310	69.340	69.435	69.465	69.555	69.585	69.585	69.615
20	69.525	69.465	69.370	69.340	69.310	69.340	69.435	69.465	69.555	69.615	69.585	69.615
21	69.525	69.465	69.370	69.340	69.310	69.340	69.435	69.495	69.555	69.615	69.585	69.645
22	69.525	69.465	69.370	69.340	69.310	69.370	69.435	69.495	69.555	69.615	69.585	69.645
23	69.525	69.465	69.370	69.340	69.310	69.370	69.435	69.495	69.555	69.615	69.615	69.615
24	69.525	69.465	69.370	69.340	69.310	69.370	69.435	69.495	69.555	69.615	69.615	69.615
25	69.525	69.435	69.370	69.340	69.310	69.370	69.435	69.495	69.555	69.615	69.615	69.615
26	69.525	69.435	69.340	69.340	69.310	69.370	69.435	69.495	69.555	69.615	69.615	69.615
27	69.525	69.435	69.340	69.340	69.310	69.370	69.435	69.495	69.555	69.615	69.615	69.615
28	69.495	69.435	69.340	69.340	69.310	69.370	69.435	69.495	69.555	69.615	69.615	69.615
29	69.495		69.340	69.310	69.310	69.370	69.435	69.495	69.555	69.615	69.615	69.615
30	69.495		69.340	69.310	69.310	69.370	69.435	69.495	69.555	69.615	69.615	69.615
31	69.495		69.340		69.310		69.435	69.525		69.615		69.615
Avg.		69.475		69.345		69.335		69.465		69.590		69.615
	69.530		69.385		69.310		69.400		69.545		69.595	

Current Year 2001			Period 1935-2001			Area and Capacity Table		
Month	@ Extreme Elevation Meters		Elevation Meters			Elevation	Area	Capacity
	High	Low	# Average	# Maximum	! Minimum	Meters Below M.S.L.	Hectares	Million Cubic Meters
Jan.	69.495	69.555	71.375	69.280	75.990	84.640	0	0
Feb.	69.435	69.495	71.280	69.190	75.830	83.520	8,337	31.7
Mar.	69.340	69.435	71.200	69.130	75.770	82.300	25,455	232.8
April	69.310	69.370	71.145	69.100	75.800	81.080	38,284	629.8
May	69.310	69.310	71.135	69.100	75.740	79.250	49,615	1,443.2
June	69.310	69.370	71.180	69.160	75.830	78.030	54,512	2,077.2
July	69.370	69.435	71.235	69.220	75.930	76.810	60,218	2,775.3
Aug.	69.435	69.525	71.290	69.250	76.020	74.370	72,723	4,393.7
Sept.	69.525	69.555	71.350	69.280	76.020	73.150	79,683	5,322.5
Oct.	69.555	69.615	71.380	69.310	76.140	71.630	89,760	6,611.5
Nov.	69.585	69.615	71.395	69.340	76.200	70.100	95,426	8,022.6
Dec.	69.615	69.645	71.360	69.340	76.080	67.060	106,029	11,092.7
Yearly	69.310	69.645	71.275	69.100	76.200	64.010	116,753	14,481.1
						60.960	127,680	18,206.2

@ Mean daily

! Reading near first day of month

Mean monthly